

NASA/C3P- 2008 INTERNATIONAL WORKSHOP ON POLLUTION PREVENTION AND SUSTAINABLE DEVELOPMENT

"Enhancing Mission through Proactive Environmental Risk Mitigation"

University of California at San Diego

AGENDA – Revised (11.21.08)

Time	Day 1 (Atkinson Hall, Calit2 Auditorium)	
	Tuesday, November 18	
8:10 am & 8:20 am	Bus pickup at Embassy Suites Hotel, La Jolla, for transport to UCSD campus (15-minute ride)	
7:45 am – 6:00 pm	Registration/ Information Desk (Calit2 Foyer)	
8:30 am – 9:00 am	Break / Continental Breakfast (Calit2 Foyer)	
9:00 am – 10:40 am	<p>Welcome and Opening Remarks</p> <p>Keynote Address</p>	<ul style="list-style-type: none"> - Arthur Ellis – Vice Chancellor for Research, UC San Diego - Frieder Seible – Dean of UCSD Jacobs School of Engineering - Humberto Rosa – Secretary of State for the Environment, Portugal - Centro Para Prevenção da Poluição Welcome – General P.C. Branco, C3P President - NASA Headquarters Welcome – Olga Dominguez, Assistant Administrator for the Office of Infrastructure and Administration - NAVY Region Southwest Sustainability – Rear Admiral L.R. Hering Sr., Commander, Navy Region Southwest
10:40 am – 10:55 am	Break / Beverages (Calit2 Foyer)	
10:55 am – 12:00 pm	A.1/B.1 Vision for Sustainability (Moderator: Olga Dominguez)	<ol style="list-style-type: none"> 1. Renewable Energy and Energy Efficiency: Status and Challenges – Stanley Bull, Former Associate Director for Science and Technology for the National Renewable Energy Laboratory 2. United States Environmental Protection Agency Sustainability Directions: Efforts to Save Energy, Prevent Pollution and Reduce Greenhouse Gases – Amy Zimpfer, Air Division, U.S. EPA
12:00 am – 1:15 pm	Lunch (Not Provided, see your registration folder for suggestions on UCSD dining options)	
	Technical Sessions	
1:15 pm – 2:10 pm	A.2/B.2 Environmentally Driven Risk Mitigation in Aerospace (Moderator: James Leatherwood)	<ol style="list-style-type: none"> 1. Environmental Assurance – Framework for Reducing NASA Mission Risks – James Leatherwood, NASA HQ 2. Risk Mitigation of Obsolescence for Materials and Processes as a Consequence of Sustainable Development – Thomas Rohr, European Space Agency (ESA), Product Assurance and Safety Department, Materials and Processes Division
2:10 pm – 2:20 pm	Break / Beverages (Calit2 Foyer)	
2:20 pm – 3:40 pm	A.3/B.3 Federal Sustainability Programs (Moderator: Al Sorkin)	<ol style="list-style-type: none"> 1. Sustainability for Portugal: Sustainable Regional Strategy and the Wide Spread of New Business Model – Eduardo Pereira, Consultant for Sustainability , Portugal Government
3:40 pm – 3:50 pm	Break / Snacks (Calit2 Foyer)	
3:50 pm – 5:20 pm	A.4/B.4 Sustainability in Marine Ecosystems (Moderator: Brian Greene)	<ol style="list-style-type: none"> 1. Algal biofuels: an environmentally efficient energy alternative – Dr. Maria Vernet, Scripps Institution of Oceanography 2. How Important is it to be a Biosphere Reserve of UNESCO? The Case of Berlengas Islands (Peniche – Portugal) – Sérgio Leandro, Environmental Advisor – Township of Peniche, C3P 3. Climate Solutions for Local Coastal Communities – David Weil, Assistant Director, Facilities Management, University of California San Diego.
5:30 pm – 7:30 pm	Meet & Greet (Price Center East Ballroom)	
5:45 pm & 7:45 pm	Bus pickup at 5:45 – (Calit2) and 7:45 – (Price Center) on campus for transport to Embassy Suites Hotel, La Jolla	

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Time	Day 2 (Atkinson Hall, Calit2)			
	Wednesday, November 19			
7:30 am & 7:35 am	Bus pickup at Embassy Suites Hotel, La Jolla, for transport to UCSD campus			
7:45 am – 5:00 pm	Registration/ Information Desk (Calit2 Foyer)			
8:00 am – 9:15 am	Break / Continental Breakfast (Calit2 Foyer)			
8:15 am – 9:00 am	Panel Discussion (Calit2 Auditorium) (Moderator: Larry Touns)	- How does one incorporate elements of sustainability into a human lunar mission?		
	Track A (Calit2 Auditorium)	Track B (Calit2 Theatre)		
	Technical Sessions		Technical Sessions	
9:15 am – 10:45 am	A.5. Replacements for Chromium/HAPs/VOCs in Cleaning & Coatings #1 (Moderator: Pattie Lewis Burford)	1. Corrosion Mitigation and Control at NASA Kennedy Space Center – Jan Lomness , NASA, KSC 2. Government-Industry Data Exchange Program (GIDEP) An Overview – Karen Jackson , Naval Surface Warfare Center 3. NASA TEERM Principal Center Non-Chrome Projects; Technology Programs and Partnerships Branch Applied Technology Directorate, Kennedy Space Center – Matt Rothgeb , ITB, Inc.	B.5. Renewable Energy #1 (Moderator: Al Sorkin)	1. Use of Groundwater Remediation and Alternative Energy at NASA White Sands Test Facility – Holger Fischer , NASA, JSC/WSTF 2. Decontamination of "GABROS BEJA" Aquifer using an Integrated System of Renewable Energies – Sandra Estanislau , ISQ 3. Using Sustainability Concepts to Reduce Risk: – Paul Linden , UCSD
10:45 am – 11:00 am	Break / Continental Breakfast (Calit2 Foyer)			
11:00 am – 12:30 pm	A.6. Replacements for Chromium/HAPs/VOCs in Cleaning & Coatings #2 (Moderator: Matthew Rothgeb)	1. Stress-Corrosion Cracking Assessment in Spacecraft Propulsion Systems – Tommaso Ghidini , ESA 2. U.S. Air Force Update on Replacement of Hexavalent Chrome Coatings – Bill Hoogsteden , CTIO 3. Nonchrome Coatings for Aerospace – Charla Wise & Tony Phillips , Lockheed Martin	B.6. Renewable Energy #2 (Moderator: Brian Greene)	1. Green Remediation: An EPA Perspective – Mike Gill , U.S. EPA 2. Aerojet-General Corporation Remediation Activity Sacramento, CA – Erik Didriksen , Aerojet
12:30 pm – 1:45 pm	Lunch (Not Provided, see your registration folder for suggestions on UCSD dining options)			
1:45 pm – 3:15 pm	A.7. Replacements for Chromium/HAPs/VOCs in Cleaning & Coatings #3 (Moderator: Pattie Lewis Burford)	1. Chromates Technology Roadmap – Keith Legg , Rowan Technology Group 2. Low Temperature Cure Powder Coatings for Aerospace Applications: ESTCP Project WP-0614 – Wayne Patterson , Hill AFB 3. UV Curable Powder Coatings for Aerospace Applications: ESTCP Project WP-0801 – Chris Geib , SAIC 4. Smart Coatings: Reactive Microcapsules Containing Corrosion Inhibitors – Victoria Johnston-Gelling , North Dakota State University	B.7. Renewable Energy #3 (Moderator: Brian Greene)	1. Wind Power Deployment Strategies - Robi Robichard , National Renewable Energy Laboratory 2. Bats and Wind Energy: Predicting Risk and Designing Mitigations – Ted Weller , U.S. Forestry Services, Redwood Sciences Laboratory 3. Ultra Low Emissions Biomass to Energy Process- Anthony Arand , Envirepel Energy, Inc.
3:15 pm – 3:30 pm	Break / Beverages and Snacks (Calit2 Foyer)			
3:30 pm – 5:20 pm	A.8. Replacements for Chromium/HAPs/VOCs in Cleaning & Coatings #4 (Moderator: Pattie Lewis Burford)	1. Air Force Space Command Corrosion Control Program – Richard Bliss , AFSC, HQ 2. CTIO Projects in Support of Air Force Space Command – Lt. Xav Lee , USAF, CTIO 3. AFSPC/NASA Completed and On-going Test Projects – Pattie Lewis Burford , ITB, Inc.	B.8. Renewable Energy #3 (Moderator: Jahn Dussich)	1. MicroCSP: Generation, Heating, Cooling – Jim Maskrey , Sopogy, Inc. 2. Green Engineering for Urban Heat Island Mitigation – Jan Kleissl , UCSD
5:45 pm	Bus pickup on campus at Calit2 for transport to Embassy Suites Hotel, La Jolla			

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Time	Day 3 (Atkinson Hall, Calit2)			
	Thursday, November 20			
7:50 am & 7:55 am	Bus pickup at Embassy Suites Hotel, La Jolla, for transport to UCSD campus			
8:00 am – 3:30 pm	Registration/ Information Desk (Calit2 Foyer)			
8:00 am – 9:00 am	Break / Continental Breakfast (Calit2 Foyer)			
	Track A (Calit2 Auditorium)		Track B (Calit2 Theatre)	
	Technical Sessions		Technical Sessions	
8:30 am – 10:00 am	A.9. DoD/NASA Sustainable Approaches (Moderator: Matthew Rothgeb)	1. Designing Safer Chemicals and Systems – Julie Zimmerman, Yale University 2. Green Cleaning: Getting the Science to the Shop – Wayne Zeigler, U.S. Army Research Laboratory	B.9. Replacements for Regulated Chemicals Lead in Electronics #1 (Moderator: Kurt Kessel)	1. The Impact of RoHS and WEE on Military and Aerospace Applications – Vance Anderson, Defense Microelectronics Activity 2. USAF Lead-Free Electronics Concerns – Tim Kalt, USAF 3. Lockheed Martin Pb-Free Electronics Risk Management – Ed Morris, Lockheed Martin
10:00 am – 10:15 am	Break / Continental Breakfast (Calit2 Foyer)			
10:15 am – 11:15 am	A.10. REACH - Registration, Evaluation, Authorisation and Restriction of Chemical Substances (Moderator: Matthew Rothgeb)	1. Complying with the European REACH Directive – Glynis Coulter, Raytheon 2. The REACH Regulation and its Global Impact – Charla Wise & Ed Morris, Lockheed Martin	B.10. Replacements for Regulated Chemicals Lead in Electronics #2 (Moderator: Kurt Kessel)	1. Guideline on Lead Free Implementation for High Reliability Applications – Reza Ghaffarian, NASA, JPL 2. European SME Implementation of Lead-Free Soldering European Overview – Margarida Pinto, ISQ 3. Army Aviation and Missiles Approach to Lead-free Management – David Locker, U.S. Army
11:15 am – 12:00 pm	JG-PP Panel Discussion (Calit2 Auditorium) (Moderator: Matthew Rothgeb)	Alternatives to hexavalent chromium-containing coatings: Where do we go from here?		
12:00 pm – 12:15 pm	Workshop Closing Remarks			
12:15 pm – 1:30 pm	Lunch (Not Provided, see your registration folder for suggestions on UCSD dining options)			
1:30 pm – 4:45 pm	UCSD technology tours (sign-up sheets will be available the 1 st day of registration only)	- StarCave - Varrier Wall - HiPerSpace OptIPortal - ShakeTable		
1:45 pm & 5:00 pm	Bus pickup on campus at Calit2 for transport to Embassy Suites Hotel, La Jolla			